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Winter Preparedness 2022/2023

Steve Baker | President and COO

Kelly Ferneau | Site Vice President, Cook Nuclear Plant

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David Isaacson | I&M Vice President - Distribution

November 17, 2022

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Executive Summary

- Prepared with adequate resources and infrastructure to meet customer needs during Winter 2022/2023
- Proactively reaching out to communicate and engage customers



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Indiana Michigan Power Resource Diversity

Diverse set of Generation Resources and PPAs:

- 2,278 MW Cook Nuclear Plant
- 2,223 MW Rockport Coal Plant
- 22 MW of Hydroelectric Power
- 35 MW of Universal Solar
- 187 MW OVEC ICPA
- 450 MW of Wind Power under PPA;
 - 100 MW from the Fowler Ridge I Wind Farm in Benton County, IN
 - 50 MW from the Fowler Ridge II Wind Farm in Benton County, IN
 - 100 MW from the Wildcat Wind Farm in Madison County, IN
 - 200 MW from Headwaters Wind Farm in Randolph County, IN

80+%

*Carbon-free System-wide
Generation In 2021*

I&M Demand-Side Resources:

- Energy Efficiency Programs
- ~ 300 MW of Interruptible and Demand Response Load

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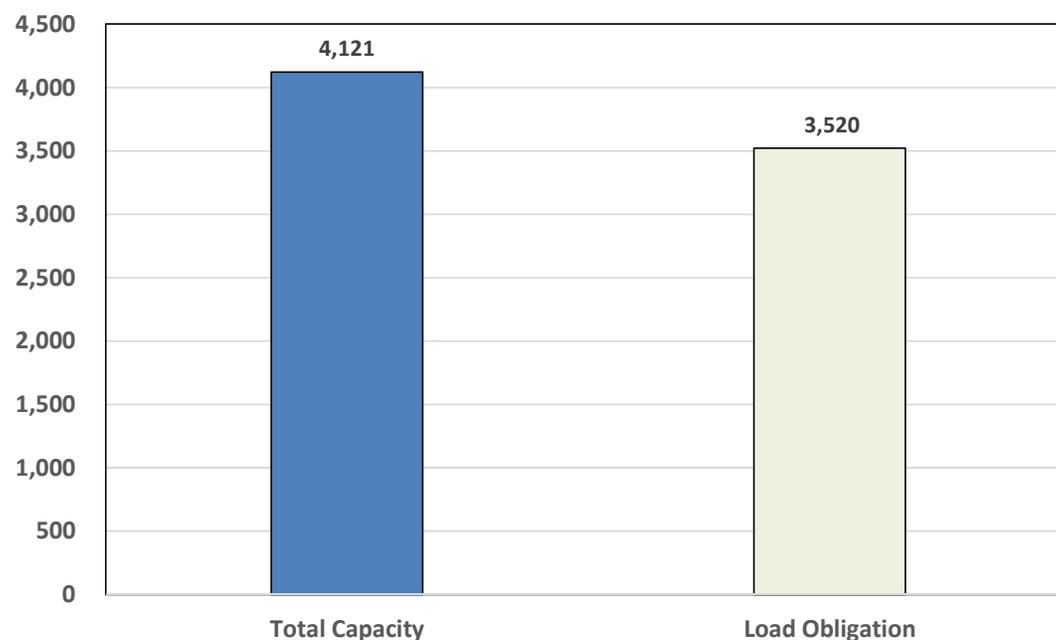
Winter Energy Outlook

PJM Unforced Capacity (UCAP)

I&M has sufficient capacity to meet its load obligations for Winter 2022/2023 with adequate reserve margin

Description	2022 Capacity (MW)
Fossil and Nuclear	3,696
Demand Response	340
Intermittent (wind, solar, hydro)	85
Total Capacity	4,121

Estimated I&M Winter 2022/2023 Capacity Position



* Fossil and Nuclear value reflects capacity after Rockport Unit 2 lease expires on 12/7/22

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PJM-2022 Watch List

- I&M does not anticipate RTO changes to impact the ability to meet 2022/2023 winter load obligations.
- I&M is monitoring ongoing activities in PJM related to:
 - Comprehensive review of capacity market
 - Timeline for interconnection of new generation resources
 - Integration of DERs into capacity, energy, and ancillary service markets

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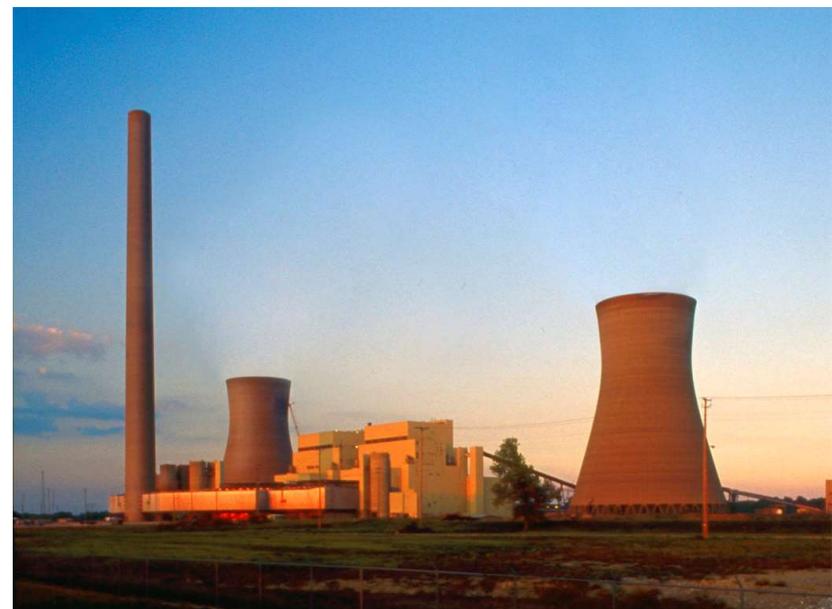
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Winter Preparation: Fossil Generation

Fossil Generation

- Fuel Supply: I&M anticipates having adequate fuel supply on hand for Winter Operation
 - Projecting 38 days of Full Load Burn (Dec. 1st)
- Winterization – Cold Weather Preparedness & Operation Plan Execution
 - Started Sept. 1st and attestation of plan execution is scheduled for Nov. 15th
- Planned Fall Outages: Addressing known liabilities
 - Release Dates: U1-Nov. 5th and U2- Nov. 21st



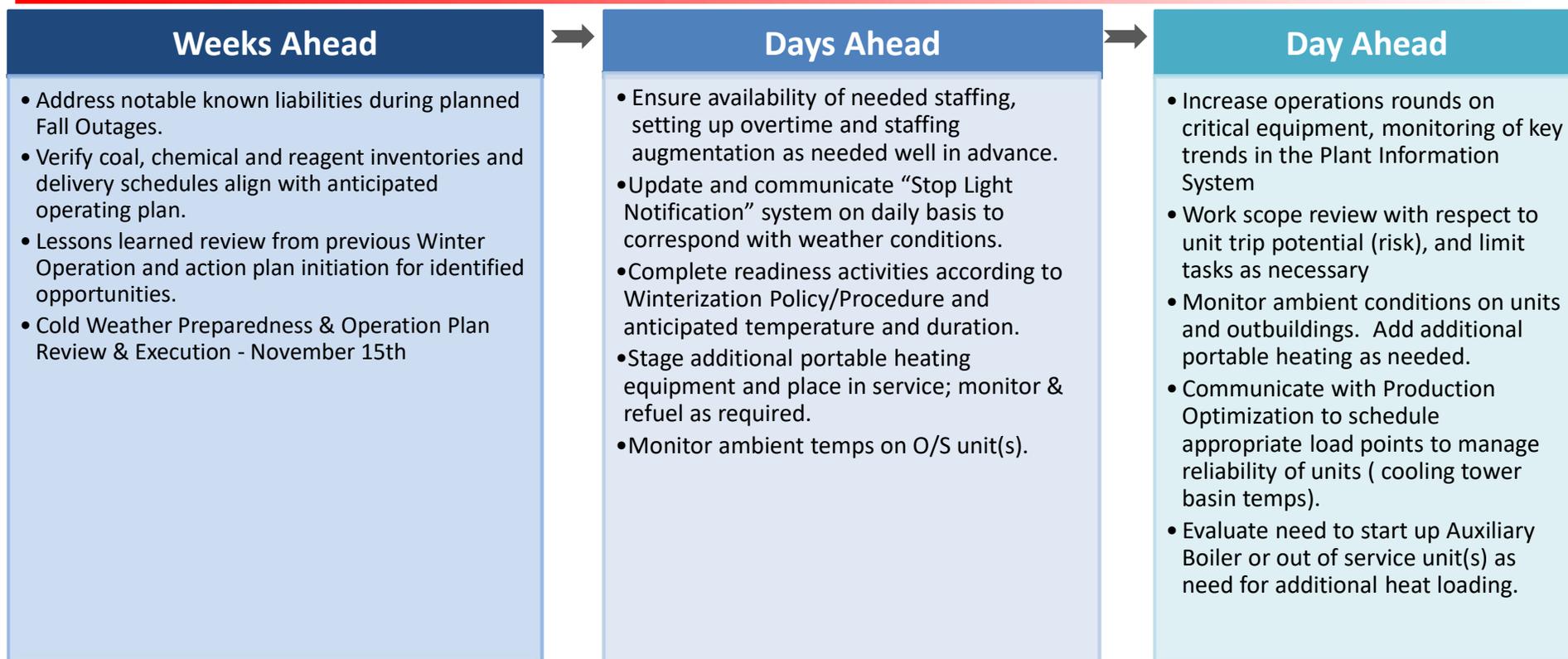
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Generation: Proactive Management of Extreme Cold Weather (Winter)



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Winter Preparation: Nuclear Generation

Nuclear Generation

- **Fuel suppliers**
 - Adequate fuel supply for 4 years (through 2025)
 - No direct dependence on Russia
- **Planned/maintenance outages**
 - None
- **Severe Weather**
 - Winterization procedure
 - Severe weather procedure
 - Extreme cold, high winds, rough lake, blizzard



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Winter Preparation: Indiana Resiliency/Reliability

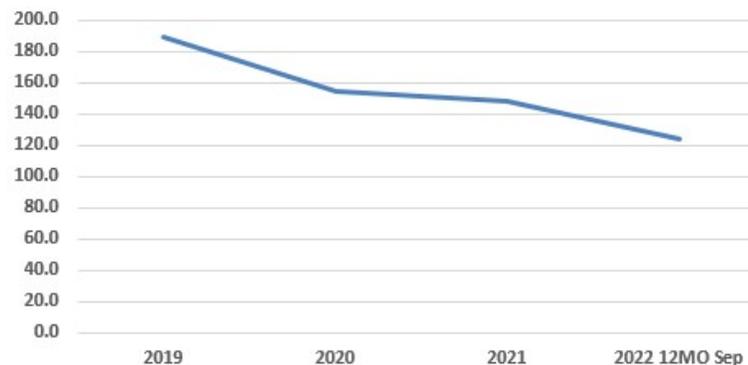
Resiliency Comparitive

	2012 Derecho	2022 Derecho
Peak Wind Speed	91 MPH	98 MPH
Circuit Level Outages	75	30
Customers Affected	105,800	40,700
Restoration Duration	8 days	3.5 days

Improvements:

- Storm hardening standards
- Grid Modernization investments
- ICS
- Mutual Assistance

I&M - INDIANA SAIDI
(Non-JMED)



2022 vs. 2021 YTD % Improvement (Non-JMED)

Contributing Cause	SAIDI	SAIFI
Vegetation	43%	38%
Equipment Failures/Lightning	16%	3%
Station/T-Line	40%	49%
Overall	21%	13%

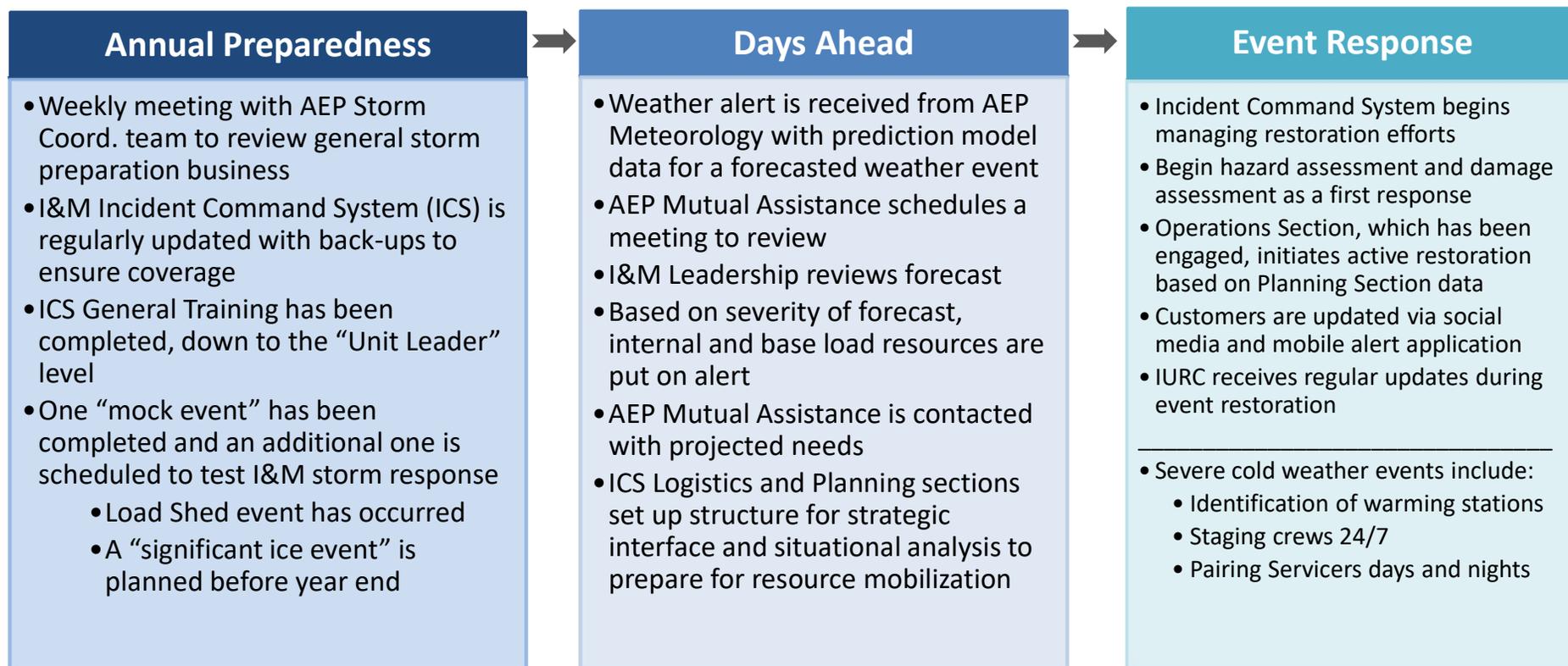
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Distribution Operations: Extreme Weather Preparations and Response



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Questions



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